



Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 61136

Entry Year 2025

Acreage: 1,881

County Kalkaska

Management Area: High Sand Plains

Stand Examiner: Steve Crigier

Legal Description:

T25N , R6W, Sec 9, 10, 11 and 16

Identified Planning Goals:

Management in the High Sand Plains area aim to provide timber products; maintain or enhance wildlife habitat; protect areas of unique character including the Manistee River and its tributaries, a designated natural river; threatened, endangered and special concern species; and provide for forest-based recreational uses. Timber management for this 10-year planning period includes continuing aspen management to maintain early successional habitat for hunting and other wildlife-related recreational opportunities; increasing regeneration of oak; focusing on balancing the red pine age class structure through final harvests and re-planting; and on improving red pine quality through partial harvests. Expected trends within this 10-year planning period are increased recreational pressure, especially on the established trails and along the Manistee River and its tributaries; an increased wildland/urban interface and a need to restore barrens communities through prescribed fire; and invasive plant control.

Soil and topography:

The terrain within the compartment mostly flat. The upland soils are on an well drained Grayling Sand and the lowlands are on a Lupton Muck.

Ownership Patterns, Development, and Land Use in and Around the Compartment:

The area is dominated by State forest land except for land adjacent to the south west boundary where there is several private dwellings along Cannon Creek. The state land around the compartment has been mostly managed for Kirtland's Warbler's habitat. General forestry along with some oil and gas development make up some of the more intensive land uses in the area.

Unique Natural Features:

There are several occurrences of threatened and endangered species in and adjacent to the compartment.

Archeological, Historical, and Cultural Features:

There is reminace of an old logging camp with in the compartment.

Special Management Designations or Considerations:

The Big Devil Creek, Little Devil Creek and the Cannon Creek are designated as a part of the Natural Rivers System and are also designated Trout Streams. The Big Devil Creek Deer Yard is also within the compartment. The southern portion of the compartment is within the Kirtland Warbler Management Area.

Watershed and Fisheries Considerations:

Big Cannon Creek, Big Devil Creek, Little Devil Creek, and a tributary to Big Cannon Creek all flow through Compartment 136. All are Designated Trout Streams. Big Cannon Creek and Big Devil Creek are both high quality trout streams with self sustaining populations of brook and brown trout. Big Cannon Creek is also the only Upper Manistee tributary that has a self-sustaining population of rainbow trout. Therefore, BMPs should be followed when working near any of these streams. Also, future management near Big Cannon Creek, its tributary, and Big Devil Creek should be for tree species other than aspen, in order to discourage beaver impact on these important trout streams.

Wildlife Habitat Considerations:

Compartment 136 is mostly comprised of poorly drained soils (LTA 5149) located in the central part of the compartment. Low areas currently harbor shrub wetlands and mixed lowland forest. Much of this area drains into the Big Cannon, Little Devil, and Big Devil Creeks. Beaver activity and periodic blowdown events provide natural disturbance in these areas. Some limited brush regeneration may be implemented to recycle rank alder and fruiting shrubs along upland edges. Lowland conifer habitat should be maintained and is especially important as winter cover for deer. Wildlife utilizing these lowland communities include white-tailed deer, bobcat, black bear, snowshoe hare, alder flycatcher, Eastern milk snake, and wood turtle.

The periphery of this compartment is part of a broad, flat outwash plain, comprised mainly of excessively drained soils

creating a flat, drought-prone landscape adapted to frequent wildfires resulting in a variety of successional stages of pine-oak-aspen forest and grass-shrub openings, with some mid to late successional forest in places, which is typical of a fire driven landscape. Jack pine stands are needed by Kirtland's Warbler and provide habitat for the upland sandpiper, Eastern bluebird, white tailed deer, black bear, snowshoe hare, and for several protected prairie plants, including the Allegheny plum, Hill's thistle, and rough fescue. Prescribed burning, hand felling, along with some potential seeding of native forage grasses have been proposed to maintain important herbaceous cover. Elements of coarse woody debris, mast bearing residual trees, and/or cover islands should be incorporated into the proposed timber sales to provide key habitat components in the resulting stands.

Mineral Resource and Development Concerns and/or Restrictions

There is no known metallic mineral potential in this part of the state. The nearest active sand/gravel pit is a State-owned pit more than two miles south. The compartment is primarily low and wet, which would limit the potential for development of sand & gravel. Furthermore, the compartment might be too far from populated areas (markets) to have much economic potential beyond use by the county road commission or DNR for local road maintenance. Oil & gas drilling has been relatively sparse in this area, but active production is occurring from a small field just outside the compartment to the south. Potential for additional oil & gas development within the compartment is considered low at this time. Some State-owned mineral rights in the compartment are currently leased and held by the producing deep gas well just to the south, in Sec 14. The state does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

Vehicle Access:

Access into the compartment is fairly limited. Seasonal county roads parallel the compartments boundary on three sides. There are a few two tracks that branch off the county roads that enter into the compartment but they are limited due to wetlands and creeks.

Survey Needs:

Section 16.

Recreational Facilities and Opportunities:

A dual use trail (Snowmobile Trail # 76-Craneberry Lake & Kalkaska ORV Route) is located in the very NE portion of the compartment. Proposed timber management activities should include trail protection specifications to reduce impacts, as well as serve as an example of how silviculturally sound timber harvesting practices can co-exist, and often improve recreation and hunting experiences for future generations. Treatments proposed directly adjacent to the ORV trail tread should include either a "flush cut" specification, or be stumped high enough (3 feet) to avoid being hidden by perennial flora (ferns). (TMN 3/13).

Fire Protection:

Fire protection in and around the compartment could be hindered by the lack of vehicle access. The vast amount of low ground should help coral any fires that get going in the jack pine but that also might mean they will burn into the ground and create extended mop-up period. The private dwelling on the west side of the compartment are in jack pine but are also near the Cannon Creek. There are lots of locations along the nearby creeks that can act as a water source for the responding resources.

Additional Compartment Information:

The following reports from the Inventory are attached:

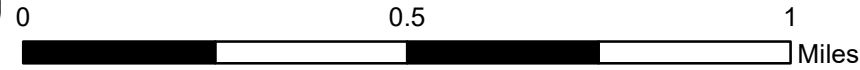
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

The following information is displayed, where pertinent, on the attached compartment maps:

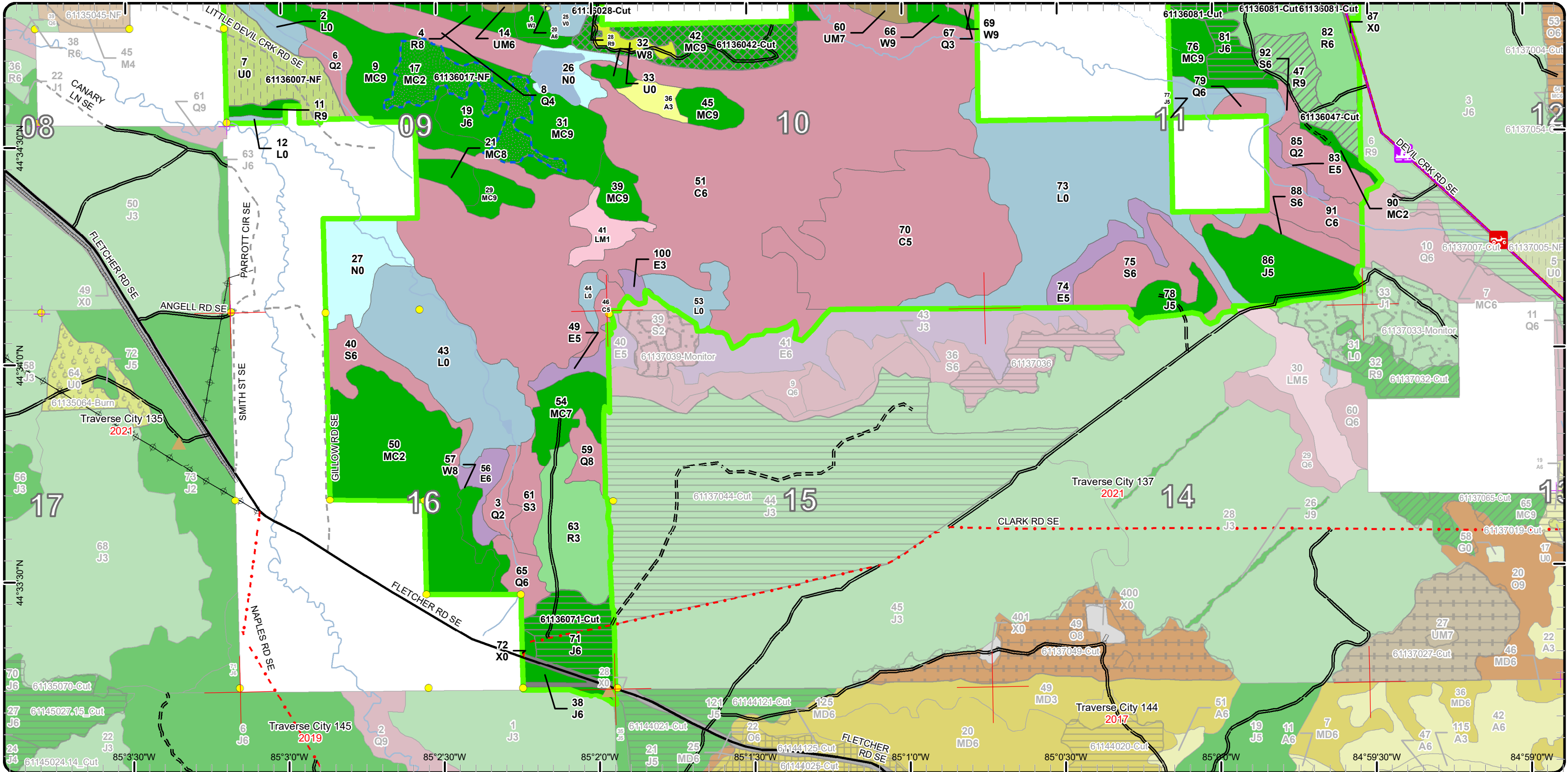
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 136
 T25N-R06W Sec. 09-11
 T25N-R06W Sec. 16
 County: Kalkaska
 Unit: Traverse City
 Mgmt Area: High Sand Plains
 YOE: 2025
 Acres: 1881 GIS Calculated
 Examiner: Steve Crigier
 Map Revised: 5/12/2023
 Map Phase: Web-Post

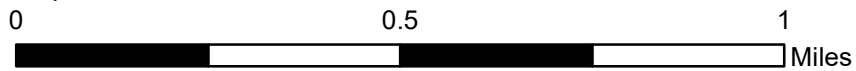


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- == DNR - Secondary Forest Road
- == DNR - Forest Access Route
- Federal / State / County - Paved Road
- - - County - Gravel Road
- - - County - Dirt Road (Seasonal)
- - - Private - Dirt / Gravel Road
- ORV Routes
- Snowmobile Trails
- Designated ORV Route
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- ▲ Berms
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Opening Maintenance
- Mowing
- 413 - Aspen
- 421 - Planted Pines
- 422 - Natural Pines
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 320 - Upland Shrub
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland

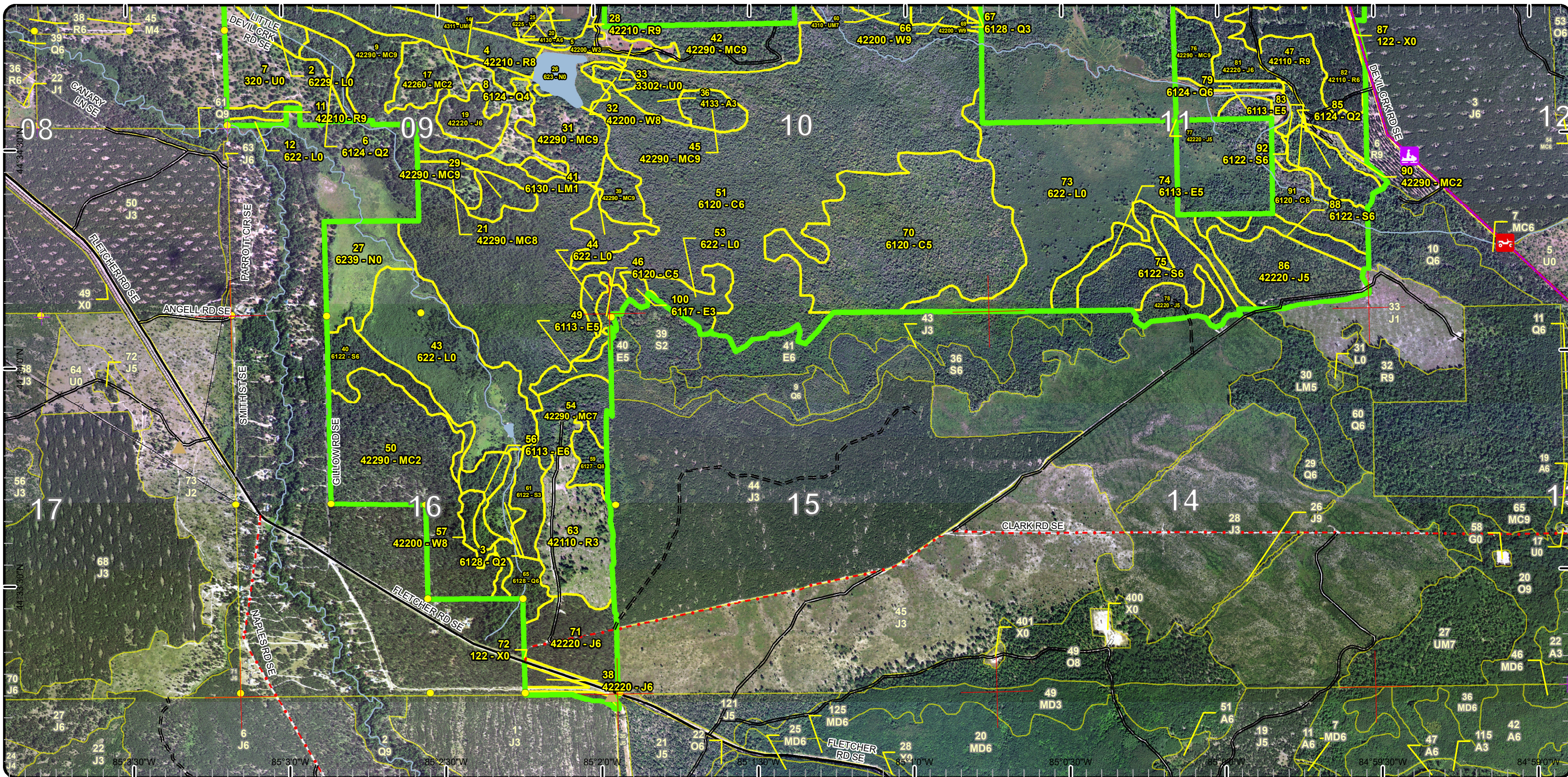


Stand Boundary Map

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Special Conservation Areas

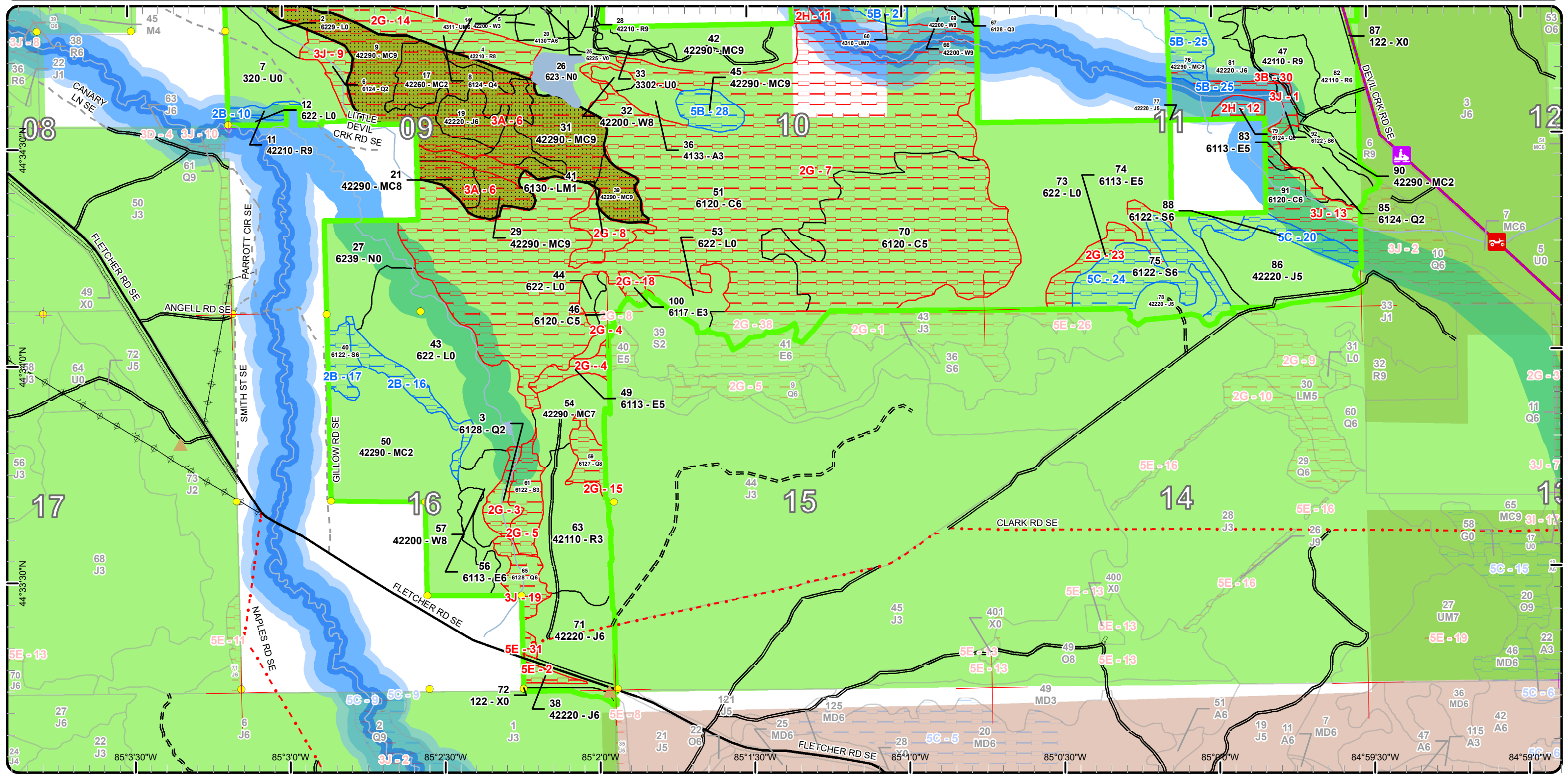
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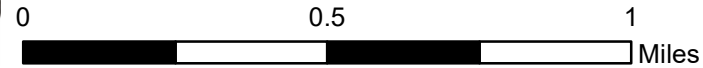
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- High Priority Trout Stream Buffer
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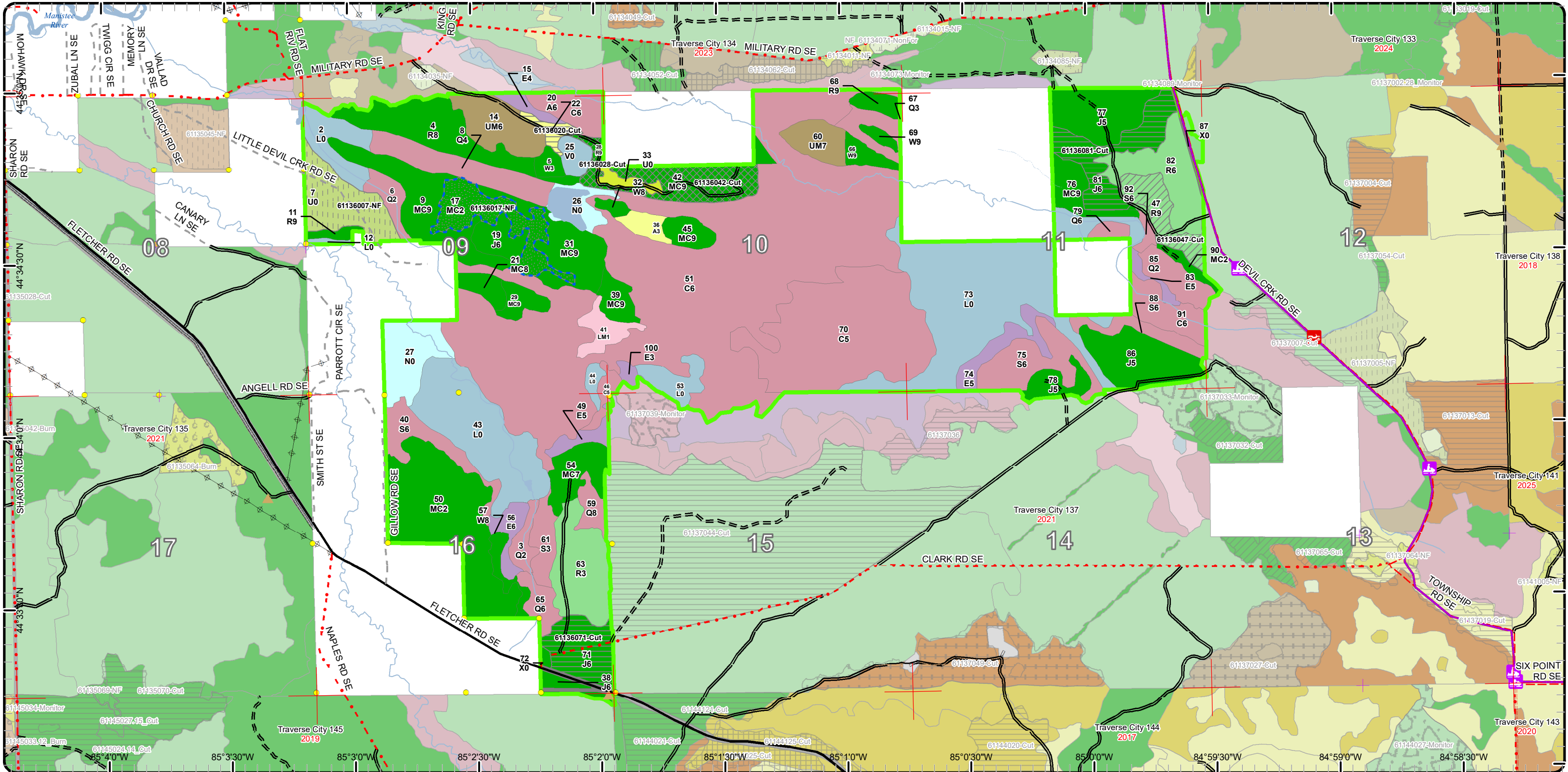


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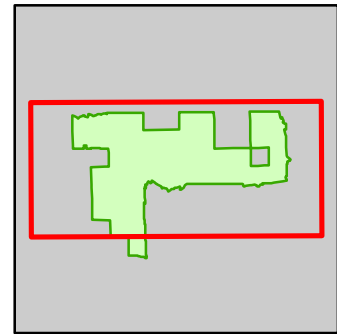
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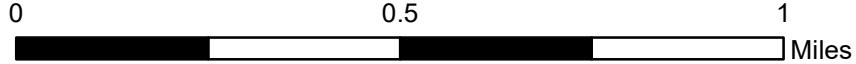
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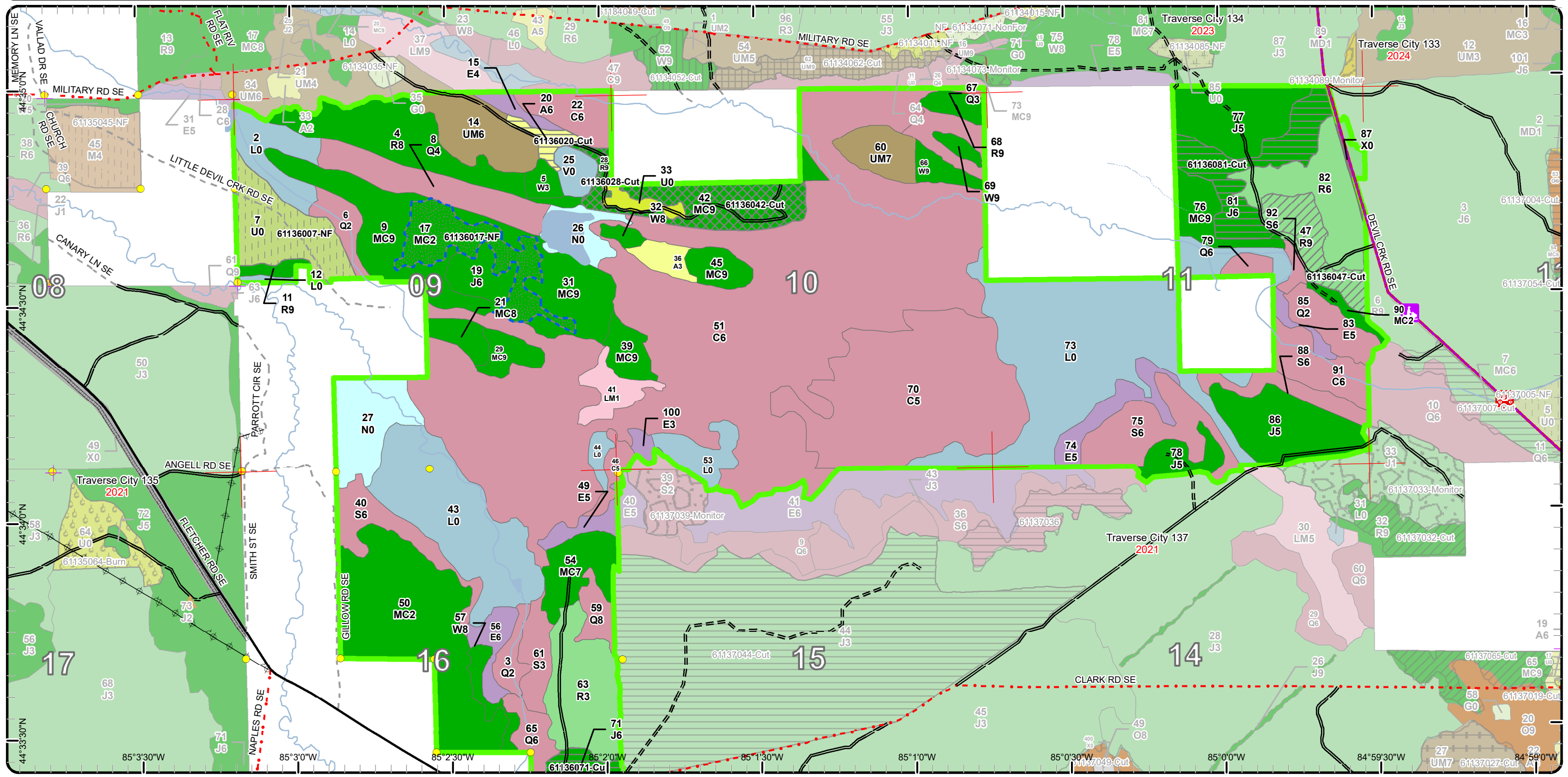
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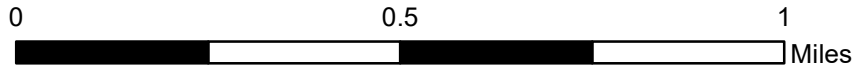
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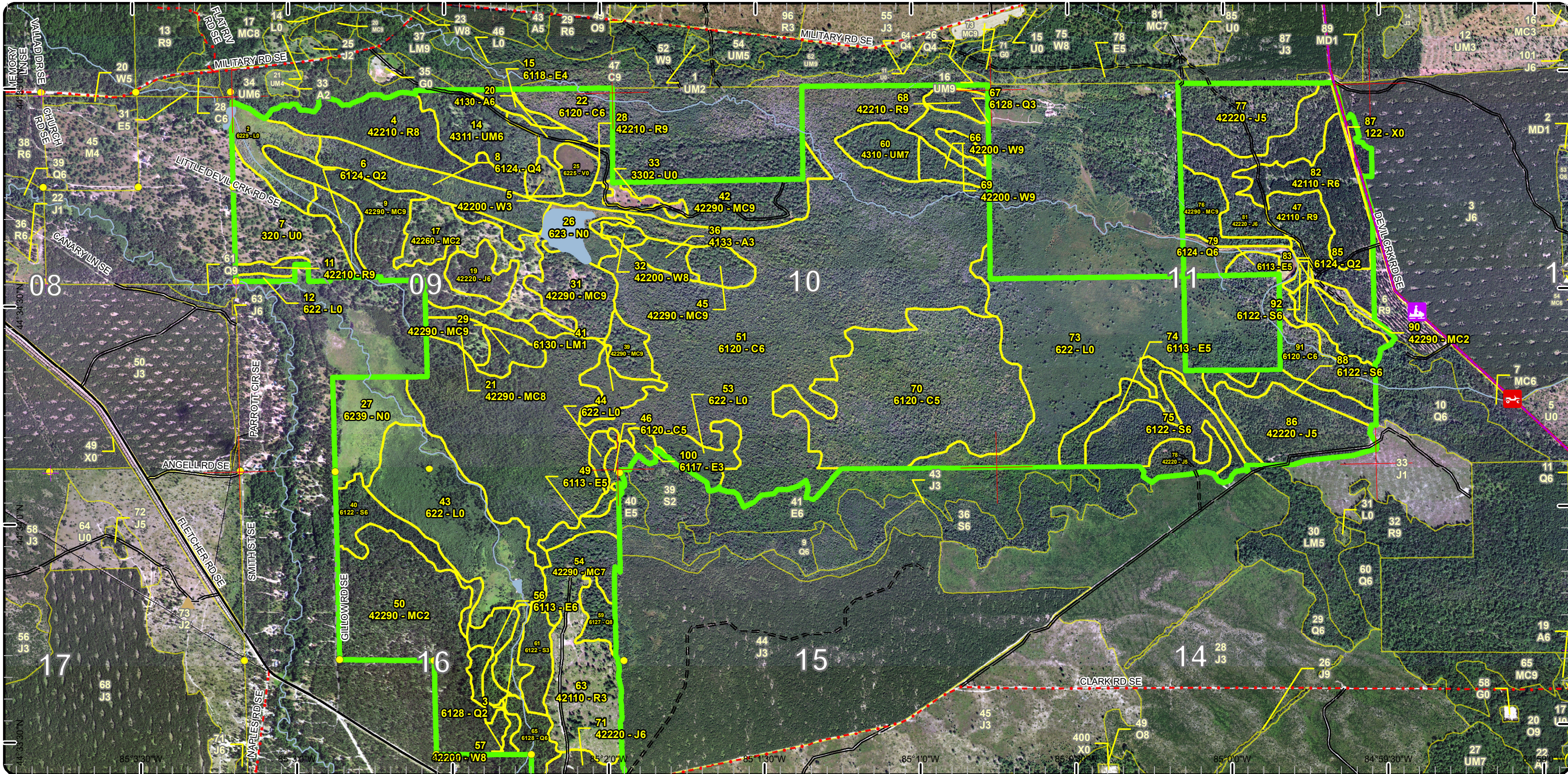
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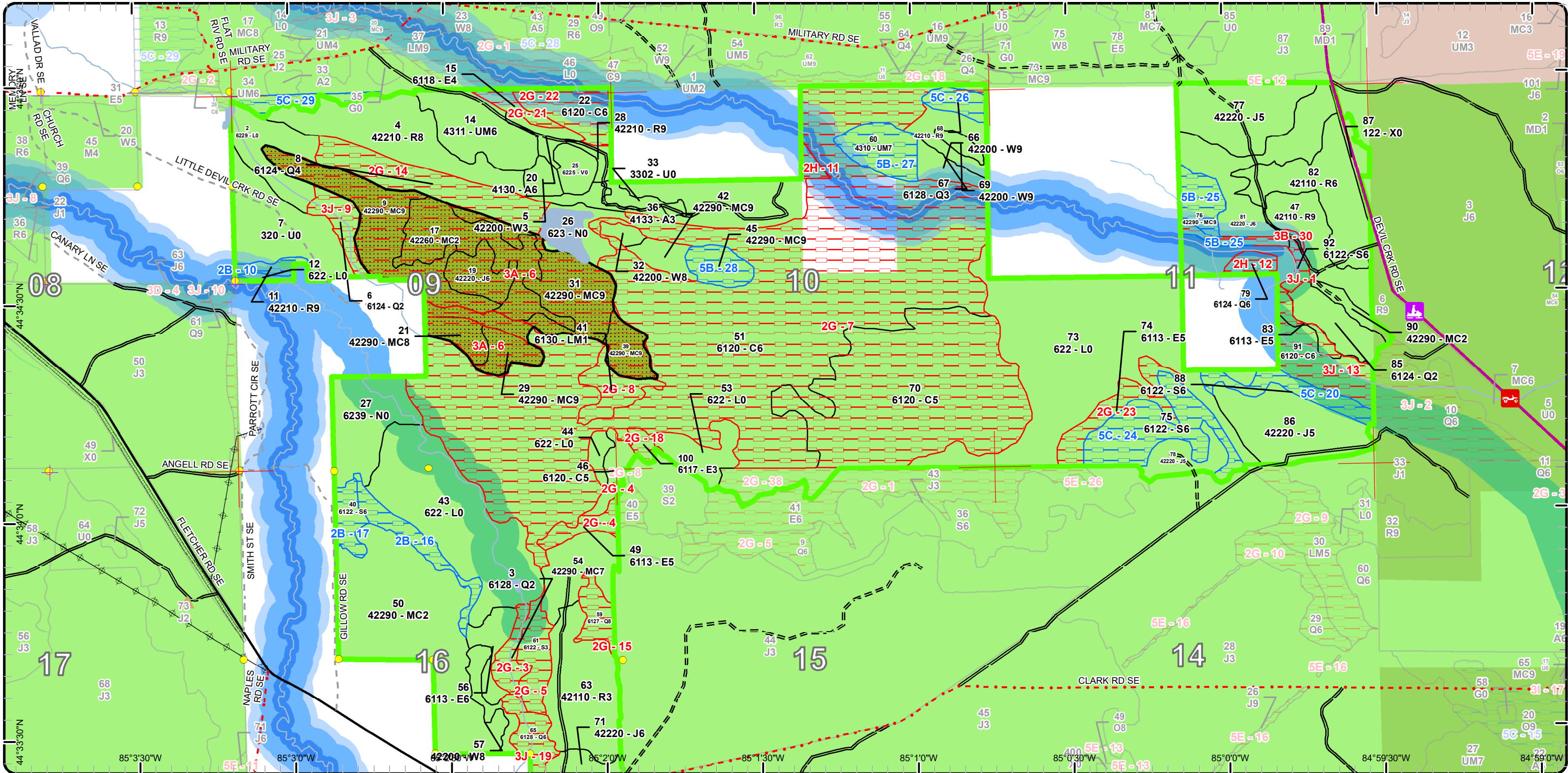
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Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	7	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	13
Bog	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Cedar	0	0	0	0	0	0	0	0	0	0	615	0	0	0	0	0	0	0	615
Jack Pine	0	0	0	0	47	33	0	46	34	0	0	0	0	0	0	0	0	0	160
Low-Density Trees	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Lowland Conifers	0	15	0	12	8	0	0	0	0	43	19	0	0	0	0	0	0	0	97
Lowland Deciduous	0	0	0	0	0	3	0	10	15	9	0	0	0	0	0	0	0	7	44
Lowland Mixed Forest	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Lowland Shrub	243	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	243
Lowland Spruce/Fir	0	0	0	0	0	13	0	0	20	47	0	0	0	0	0	0	0	0	79
Marsh	43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43
Natural Mixed Pines	0	84	5	0	32	0	0	78	57	0	35	0	0	10	0	0	0	0	300
Red Pine	0	39	0	0	0	0	0	109	0	7	0	0	0	0	0	0	0	0	154
Upland Mixed Forest	0	0	0	0	0	27	0	0	0	15	0	0	0	0	0	0	0	0	42
Upland Shrub	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35
Urban	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
White Pine	0	0	5	0	0	0	0	0	0	10	10	0	0	0	0	0	0	0	25
Total	341	145	10	12	98	82	0	243	126	131	679	0	0	10	0	0	0	7	1881



Report 2 – Treatment Summary

Traverse City Mgt. Unit
Year of Entry: 2025

Acres of Harvest

Compartment 136
Total Compartment Acres: 1,881

Commercial Harvest - 126
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	6	0	0	0	0	0	0	0	0	6
Jack Pine	61	0	0	0	0	0	0	0	0	61
Natural Mixed Pines	0	34	0	0	0	0	0	0	0	34
Red Pine	0	3	0	0	0	21	0	0	0	25
Total	67	38	0	0	0	21	0	0	0	126

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	126	0	0	0	0	0	0	67	0	192
Next Step	0	27	27	0	67	0	132	0	0	253
Total	126	27	27	0	67	0	132	67	0	445



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Proposed Treatments:

7	61136007-NF	35.0	320 - Upland Shrub	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	3205 - Mixed Upland Shrub		No
<p><u>Prescription</u> Selectively reduce woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. As needed, treat site to remove exotics. Then seed to site appropriate grasses for wildlife food and cover. Consider seeding in native grasses and forbs.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Burn, Opening</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> Will need to get permission to access across private property. Manage in conjunction with stand 61136017 and 61135045.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
17	61136017-NF	31.5	42260 - Natural Pine, Mixed Deciduous	Sapling Medium	30	Immature	NonForestMgt	Mowing	3205 - Mixed Upland Shrub		No
<p><u>Prescription</u> Selectively reduce woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. As needed, treat site to remove exotics. Then seed to site appropriate grasses for wildlife food and cover. Consider seeding in native grasses and forbs.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Burn, Opening</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> Will access across private property. Manage with stands 61135045 and 61136007.</p> <p><u>Site Condition</u> Conservation Values</p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
20	61136020-Cut	5.6	4130 - Aspen	Poletimber Well	49	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest stand. Concentrate retention along the bog to the south. Mark scattered white pine to leave. Avoid damage to advanced pine regen.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> aspen, maple, cherry, pine, fir, spruce.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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28	61136028-Cut	3.3	42210 - Natural Red Pine	Sawtimber Well	68	141-170	Harvest	Single Tree Selection	429 - Mixed Upland Conifers	Uneven-Aged	No
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Prescription Thin stand down to about 120sqft/ac. Save legacy trees. Be cautious of the lower ground near the bog. Avoid damage to the regenerating pine and spruce.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable red pine, white pine, black spruce.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2024

42	61136042-Cut	34.3	42290 - Natural Mixed Pine	Sawtimber Well	68	141-170	Harvest	Single Tree Selection	429 - Mixed Upland Conifers	Uneven-Aged	No
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Prescription Thin the overstory to around 100-120sqft/ac. Avoid damage to the white pine in the understory. Maintain legacy /remanent pine.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable White pine, red pine, oak, cherry.
Regen:

Other Lots of size classes. Scattered mature /remanent pine. East end of stand drops off into some transition ground with black spruce mixed in.
Comment:

Site Condition

Proposed Start Date: 10/1 /2024

47	61136047-Cut	21.4	42110 - Planted Red Pine	Sawtimber Well	60	111-140	Harvest	Crown Thinning	429 - Mixed Upland Conifers	Uneven-Aged	No
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Prescription Thin through the pockets of red pine, target residual around 120sqft/ac. Harvest all the jack pine. Avoid damage to any advanced white pine regen. Seasonal restriction will likely apply due to nearby T & E concerns. Apply appropriate buffer on Big Devil Cr.
Specs:

Next Step
Treatments:

Acceptable white pine, jack pine, red pine.
Regen:

Other stand is a patchy plantation with the voids in red pine now occupied by jack pine. Scattered remenant red pine and large diameter white pine.
Comment:

Site Condition

Proposed Start Date: 10/1 /2024

71	61136071-Cut	27.4	42220 - Natural Jack Pine	Poletimber Well	70	51-80	Harvest	Clearcut	4212 - Planted Jack Pine	Even-Aged	No
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Prescription cut all trees two inches or more in diameter. Require low stumps and chipping to facilitate planting operations. Add retention near cabin along the west line.
Specs:

Next Step Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); SitePrep, Trenching; Planting, Initial Plant
Treatments:

Acceptable jack pine to stocked to met KW requirements.
Regen:

Other Pair with stand 44 of compartment 137.
Comment:

Site Condition

Proposed Start Date: 10/1 /2027



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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81	61136081-Cut	33.7	42220 - Natural Jack Pine	Poletimber Well	60	81-110	Harvest	Clearcut with Retention	429 - Mixed Upland Conifers	Even-Aged	No
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Prescription Remove the overstory jack pine. Try to protect any white pine regeneration that is present. Manage for the white pine understory. Leave mature white pine for seed and leave any legacy red pine. May need seasonal restriction due to nearby T&E concerns.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable white pine, red pine, jack pine.

Regen:

Other The west half of the stand has a good amount of white pine in the understory. East half is pretty bare under the canopy and will likely regenerate more jack pine.

Site Condition

Proposed Start Date: 10/1 /2024

Total Treatment 192.2
Acreage Proposed:

Report 4 – Site Conditions

Traverse City Mgt. Unit
Steve Crigier : Examiner

Compartment: 136
Year of Entry: 2025

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available		Dominant Site Conditions											
		With Condition				2B	5B	5C	2G	2H	3A	3B	3J	5E			
13	13	0		0	Aspen												
7	7	0		0	Bog												
615	7	0		608	Cedar				589	0				19			
160	143	0		17	Jack Pine						12	0	0	5			
5	5	0		0	Low-Density Trees												
97	27	0		70	Lowland Conifers				46	5				19			
43	10	0		33	Lowland Deciduous				29					4			
11	0	0		11	Lowland Mixed Forest				11								
243	243	0		0	Lowland Shrub				0					0			
79	0	64		16	Lowland Spruce/Fir	19		44	13					3			
43	43	0		0	Marsh												
299	145	20		134	Natural Mixed Pines		20		0	3	127			4			
155	144	10		1	Red Pine	4		6				1					
42	27	15		0	Upland Mixed Forest		15										
35	35	0		0	Upland Shrub	0											
7	7	0		0	Urban												0
26	26	0		0	White Pine												
1,881	882	109		890	Total Forested Acres	23	35	51	688	7	139	1	50	5			
	47%	6%		47%	Relative Percent												

**Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit
Steve Crigier : Examiner

Compartment: 136
Year of Entry: 2025

3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3A: Conservation Values incompatible with harvest at this time	139	2D: Portable Bridge Needed (Dept. bridge will be adequate)	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified
Comments: Unique Natural pine timber types. Mostly Fire originated stands. Access is very difficult with crossing private lands and creek crossings. Proposed SCA with treatments allowed that will enhance the natural pine communities.							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	560	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Large swamp complex							

Report 4 – Site Conditions

Traverse City Mgt. Unit
Steve Crigier : Examiner

Compartment: 136
Year of Entry: 2025

8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	9	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
10	Available	2B: Unknown if access through adjacent landowner(s) is possible	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Access of Little Devil Cr Road would be ideal if we can get permission from all of the landowners.							
11	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit
Steve Crigier : Examiner

Compartment: 136
Year of Entry: 2025

14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	30	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Available	2B: Unknown if access through adjacent landowner(s) is possible	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Available	2B: Unknown if access through adjacent landowner(s) is possible	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit
Steve Crigier : Examiner

Compartment: 136
Year of Entry: 2025

20	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	32	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Available	5B: Maintain for regeneration purposes	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit
Steve Crigier : Examiner

Compartment: 136
Year of Entry: 2025

26	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
27	Available	5B: Maintain for regeneration purposes	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
28	Available	5B: Maintain for regeneration purposes	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
29	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: treat when 61134034 is ready to harvest.							
30	Unavailable	3B: Threatened, endangered, and special concern species	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
31	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							



Report 5 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
Little Devil Creek Pine	Habitat Area	Other Habitat Area	SCA Proposa	144
Comments				



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area
HCVA = High Conservation Value Area
SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Research and Military Areas	These areas provide facilities and lands specifically dedicated for research, or other purposes. They include the 5,847 acre Forest Fire Experiment Station, the 12,000 acre Houghton Lake Wildlife Research Area, the Beaver Islands Archipelago Wildlife Research Area (that includes most of Garden Island, all of High and Hog Islands, all state owned land on Beaver, South Fox and North Fox Islands), the Cusino Wildlife Research Area, the 3,000 acre Hunt Creek Fisheries Research Station, the 125 acre Wyman Nursery, and over 144,000 acres of Military Lands.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
HCVA	Designated Critical Habitat	Critical habitat areas are established via a consultative and cooperative process between the DNR and the U.S. Fish and Wildlife service for the recovery of threatened and endangered species, as governed by Part 365, Endangered Species Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, and the Federal Endangered Species Act of 1973. This is an active program, with proposed species plans in various stages of review. As of now only two exist, Kirtland Warbler Habitat and Piping Plover Habitat.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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2	6229 - Mixed lowland shrub	Nonstocked	20.5			No	
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3	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Medium	7.6	35	1-50	N/A	2023 - stand looks like it was a flood plain at one time. Slowly filling in but still areas of wetland grasses. Lots of size classes. Creek flows through it.
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Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	5	Sapling/Pole	4	
White Pine	35	Sapling/Pole	4	35
Red Maple	25	Pole/Sapling	6	35
Balsam Fir	15	Sapling/Pole	4	
Black Spruce	20	Sapling/Pole	4	

4	42210 - Natural Red Pine	Sawtimber Medium	42.0	68	51-80	N/A	2023 - Aspen has filled in the majority of the understory, most is above the browse line. Southeastern portion of the stand was not treated with the last timber sale. 05/25/21 - Stand was treated with timber sale Ridge & Swale Pine 61-151-15.2013 - Lots of different sizes classes of red pine with some white pine coming in underneath. The eastern part of the stand has a W6 pocket that can be treated with the rest of the stand. The eastern portion of the stand has larger diameter timber and in spots the stocking is a bit less with more advanced regen.
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Canopy Species	% Cover	Size Class	DBH	Age
Northern Pin Oak	8	Log	14	
White Oak	7	Log	12	
White Pine	20	Log/Pole	10	
Red Maple	5	Pole/Sapling	7	
Red Pine	60	Log/Pole	12	68

Sub-Canopy Species	Density	Avg. Height	Size
White Oak	Trace	10 - 20 feet	Sapling
Quaking Aspen	Medium	5 - 10 feet	Sapling
White Pine	Low	Variable	Sapling

5	42200 - Natural White Pine	Sapling Well	5.1	14	1-50	N/A	2023 - Scattered pockets of mature red pine. Understory is filling in well, mostly with white pine. 2013 - Stand had the jack pine thinned out of it in 2009.
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Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	10	Sapling	2	14
Red Pine	20	Log/Pole	12	78
White Pine	70	Sapling	2	14

Sub-Canopy Species	Density	Avg. Height	Size
White Oak	Trace	10 - 20 feet	Sapling
White Pine	Medium	Variable	Sapling

6	6124 - Lowland Spruce-Fir	Sapling Medium	9.3	90	1-50	N/A	small diameter and sparse timber. Drainage running through the stand, saturated soils.
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Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	5	Pole/Sapling	5	
Red Maple	5	Pole/Sapling	5	
Northern White Cedar	30	Pole/Sapling	6	90
Black Spruce	30	Sapling/Pole	4	
Balsam Fir	30	Sapling/Pole	4	

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	High	5 - 10 feet	Tall Shrub
Balsam Fir	Low	Variable	Sapling

7	320 - Upland Shrub	Nonstocked	35.0			No	Mostly scattered cherry. Small clone of aspen along the east boundary. Need to look into if we have an easement across the private property to the west.
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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8 6124 - Lowland Spruce-Fir Poletimber Poor 30.3 83 1-50 N/A Drainage through the middle of stand. Sparse timber and very wet.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	30	Pole	6	83	Tag Alder	Medium	5 - 10 feet	Tall Shrub
White Pine	5	Pole/Sapling	6		Balsam Fir	Low	Variable	Sapling
Balsam Fir	30	Pole/Sapling	5		Black Spruce	Low	Variable	Sapling
Paper Birch	10	Pole	6					
Black Spruce	20	Pole	5					
Red Maple	5	Pole/Sapling	5					

9 42290 - Natural Mixed Pine Sawtimber Well 39.1 68 81-110 N/A 2023 - Pockets of aspen appear to be quite a bit younger. Stand has a history of fire. Legacy trees scattered throughout. 2013 - Lots of size classes of red pine. Stocking is variable. There are some pockets of high quality red pine log timber. There are scattered oak. Some areas are heavier to aspen. Northeast part of the stand is heavier to white pine (W6). Also there is some jack pine along the east edge. Extra BA 90, 140.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	15	Pole	7		White Pine	Medium	Variable	Sapling
White Pine	25	Log/Pole	12		White Oak	Trace	Variable	Sapling
Red Pine	45	Log/Pole	12	68	Red Pine	Trace	Variable	Sapling
Jack Pine	5	Pole	8		Balsam Fir	Trace	Variable	Sapling
Red Oak	8	Log	14		Red Maple	Low	>20 feet	Sapling
White Oak	2	Log	12					

11 42210 - Natural Red Pine Sawtimber Well 3.8 68 51-80 N/A Stand is on a small slope headed down to the creek that eventually runs into the Big Cannon Cr.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	20	Log	12		White Pine	Low	Variable	Sapling
Red Oak	5	Pole	8					
Jack Pine	10	Pole	8					
Red Pine	65	Log	12	68				

12 622 - Lowland Shrub Nonstocked 1.6 No Flood plain of Big Cannon Cr.

14 4311 - Pine, Aspen Mix Poletimber Well 26.9 49 51-80 N/A 2023 - Stand is quite diverse. Lots of age and size classes. Mixed pine and oak with pockets of aspen. Evidence of furrows and planted red and white pine on the east side of the stand. Planted trees appear to be about 15 years old but is mostly overtopped with aspen and overstory pine, can't find any records. A small 4 acre pocket had the jack pine and aspen removed in 2009. Stand Looks like it wants to move toward a white pine or mixed pine cover type. 2013 - Aspen with a decent amount of pine also. Stand is converting from a sapling to a pole stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	35	Pole	7	49	White Pine	Medium	Variable	Sapling
White Oak	5	Log	14		Red Pine	Low	Variable	Sapling
White Pine	20	Pole/Sap/Log	8					
Jack Pine	5	Pole/Sapling	6					
Red Pine	20	Pole/Sap/Log	8	68				
Black/Red (Hybrid) Oak	10	Log	14					
Red Maple	5	Pole/Sapling	6					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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15 6118 - Lowland Deciduous with Cedar Poletimber Poor 4.9 83 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	20	Pole	7		Tag Alder	Full	10 - 20 feet	Tall Shrub
Red Maple	30	Pole/Sapling	6	83				
Paper Birch	30	Pole/Sapling	6					
Balsam Fir	20	Pole/Sapling	6					

17 42260 - Natural Pine, Mixed Deciduous Sapling Medium 31.5 30 Immature N/A

Stand is an opening that is filling in with mostly jack and white pine. Scattered mature pine and oak. Evidence of fire history. Some moderate terrain.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	20	Sapling/Pole	3		White Pine	Low	5 - 10 feet	Sapling
Jack Pine	35	Sapling/Pole	3	30	Jack Pine	Low	5 - 10 feet	Sapling
Black/Red (Hybrid) Oak	5	Log	14					
White Pine	25	Sapling/Pole	3					
Red Maple	10	Sapling/Pole	3					
Red Pine	5	Pole	8					

19 42220 - Natural Jack Pine Poletimber Well 11.9 64 51-80 N/A

2023 - Evidence of past fire. overstory looks healthy. Some white pine filling in the understory. Some variable age and size classes present.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole	8		White Oak	Trace	Variable	Sapling
Red Oak	5	Log	12		White Pine	Low	5 - 10 feet	Sapling
Red Pine	5	Log/Pole	10					
Jack Pine	85	Pole	8	64				

2013 -Jack pine is 4-5 sticks. Stocking is variable.

20 4130 - Aspen Poletimber Well 5.6 49 51-80 N/A

2023- Overstory looks healthy. Understory is starting to fill in with white pine and fir. 2013 -Nice quality quaking aspen 5 + sticks about 8" in diameter.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	5	Pole/Sapling	6		White Pine	Low	5 - 10 feet	Sapling
White Pine	5	Log/Pole	10		Balsam Fir	Low	5 - 10 feet	Sapling
Black/Red (Hybrid) Oak	5	Log/Pole	10					
Quaking Aspen	85	Pole	8	49				

21 42290 - Natural Mixed Pine Sawtimber Medium 8.1 72 81-110 N/A

2023 - Mostly mixed pine with scattered oak and red maple. East end of stand is much more sparse, more of an opening type. 2013 -Stand is a real mixed bag of species and size classes. There is evidence of past fire and some what recent fire, plow line still visible.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	10	Pole	8		White Pine	Medium	Variable	Sapling
Red Maple	5	Pole	8		Red Pine	Trace	Variable	Sapling
Black/Red (Hybrid) Oak	5	Log	12					
Red Pine	45	Log/Pole/XLog	12	72				
White Pine	30	Log/Pole/XLog	12	72				
Paper Birch	5	Pole	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																
22	6120 - Lowland Cedar	Poletimber Well	16.4	90	51-80	N/A	2013 - Cedar looks to be in pretty poor shape, thin canopies, a lot of it on the ground. Quite a bit of balsam and spruce regen in the understory. Cedar isn't providing any habitat value other than CWD. Some scattered log sized white pine.																																																
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Northern White Cedar</td> <td>55</td> <td>Pole</td> <td>7</td> <td>90</td> </tr> <tr> <td>Tamarack</td> <td>5</td> <td>Pole</td> <td>6</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>15</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Black Spruce</td> <td>15</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>10</td> <td>Pole</td> <td>7</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Northern White Cedar	55	Pole	7	90	Tamarack	5	Pole	6		Red Maple	15	Pole	8		Black Spruce	15	Pole	7		Paper Birch	10	Pole	7		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Balsam Fir</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Black Spruce</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	Medium	5 - 10 feet	Sapling	Black Spruce	Low	5 - 10 feet	Sapling									
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25	6225 - Bog	Nonstocked	7.5			No																																																	
26	623 - Emergent Wetland	Nonstocked	14.2			No	2023-Old beaver flooding. Dam looks to be inactive.																																																
27	6239 - Mixed Emergent Wetland	Nonstocked	28.9			No	Tributary to Big Cannon Creek runs through the stand.																																																
28	42210 - Natural Red Pine	Sawtimber Well	3.3	68	141-170	N/A	2023- BA: 190, 160. Scattered legacy trees. Some lower ground conditions near the bog. 2013-High quality red pine 7 sticks and very clean boles. Stand was thinned in 2003.																																																
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29	42290 - Natural Mixed Pine	Sawtimber Well	8.7	70	141-170	N/A	2023 - Unique stand with a history of fire. High quality pine, legacy tree scattered throughout, pockets of cedar. 2013 - Stand is a mix of a red & white pine log stand with pocket of jack pine pole timber. Stand has some B. spruce and cedar in the transition ground. Lots of size classes of timber.																																																
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31	42290 - Natural Mixed Pine	Sawtimber Well	30.3	72	111-140	N/A	2023- Unique stand. White pine developing in the understory. History of fire activity. Legacy trees scattered throughout. Small openings scattered in the north end. Stand has some ridge and swale like terrain. BA: 100, 150, 120.2013 -South end of the stand has some large diameter red and white pine that are 7-8 stick +. Lots of different size classes amhite pineongst the pine. Some black spruce along the east edge of the stand. North end of the stand is more open grown timber and stocking is more variable, and is really more of an R8.																																																
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32	42200 - Natural White Pine	Sawtimber Medium	3.1	95	51-80	N/A	05/25/21 - Stand was treated with timber sale Ridge & Swale Pine 61-151-15. Stand is on low ground but not too wet. Scattered large white pine with a good mix of soft maple and birch.																																																							
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33	3302 - Low Density Conifer Trees	Nonstocked	5.2			No	WLD has put some work into maintaining this site in the past.																																																							
36	4133 - Aspen, Mixed Pine	Sapling Well	7.1	2	Immature	N/A	2023 - scattered log sized white left as residual from harvest. Aspen has sprouted well but is getting browsed pretty heavily. 05/25/21 - Stand was treated with timber sale Ridge & Swale Pine 61-151-15. 2013 - The eastern part of the stand has quite a bit of white pine mixed into the canopy. Stand is a bit immature.																																																							
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38	42220 - Natural Jack Pine	Poletimber Well	3.2	70	51-80	N/A																																																								
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39	42290 - Natural Mixed Pine	Sawtimber Well	9.9	72	81-110	N/A	2023- Unique natural pine stand with lots of vertical structure. Scattered remanent white and red pine. Understory filling in with a mix of pine, fir and spruce. 2013- A mix of upland and lowland ground. Lots of white pine in the understory. A good amount of black spruce mixed in. Some 3-4' diameter white pine. There is also some scattered R. oak in the stand.																																																							
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40	6122 - Black Spruce	Poletimber Well	19.5	78	81-110	N/A	2023 - Nice dense spruce stand. Mature white pine scattered through but more so at the west end.																																																							
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41	6130 - Fir, Aspen, Maple	Sapling Poor	11.3	35	1-50	N/A	2023 - Dense stocking of red maple and first the northern tip 2013 - Parts of this stand looks like it has been cut?? Maybe a wildlife habitat cut. Trees are about 20' tall. Other spots are more of an L0 or bog.																																															
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42	42290 - Natural Mixed Pine	Sawtimber Well	38.8	68	141-170	N/A	2023 - Lots of size classes. Scattered mature /remanent pine. East end of stand drops off into some transition ground with black spruce mixed in. BAs: 150, 140, 160, 160. 2013 -Stand is a mixed pine stand. West part of the stand is heavier to white pine, and is fairly scrubby/poor quality, while the east 1/2 is more of a red pine stand. Could almost split the stand in 2. Some nice advanced regen of red and white pine. Stocking is variable, stand also has some scattered big white pine. Most of the red pine height are around 6 sticks and is ok quality. Extra BA 70.																																															
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43	622 - Lowland Shrub	Nonstocked	69.3			No	Tributary to Big Cannon Cr flows through the stand.																																															
44	622 - Lowland Shrub	Nonstocked	3.9			No																																																
45	42290 - Natural Mixed Pine	Sawtimber Well	9.5	125	81-110	N/A	2023 - Overstory is looking really nice. white pine seeding in especially on the north side. 05/25/21 - Stand was treated with timber sale Ridge & Swale Pine 61-151-15. Big pine, about 14" in dbh and 8 to 9 stick tall. Clean timber. Some small pockets of advance white pine regen.																																															
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46	6120 - Lowland Cedar	Poletimber Medium	6.4	90	1-50	N/A	2023 - Regeneration is pretty sparse. most of the red maple has been browsed down. Low amounts of spruce and pine. 2013 -South portion of stand is on a bit of a knol but the north and east part is on low ground. 2017 - Stand was harvested in the fall of 2017 'Bear Tracks Mix' 61-125-15-01. All of the Red maple, fir, spruce was harvested leaving scattered cedar, birch and hemlock. Also all the spruce and fir less than 4" was left. The ground was scarified pretty well so hopefully things will seed back in pretty well.																																															
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47	42110 - Planted Red Pine	Sawtimber Well	22.2	60	111-140	N/A	2023 - stand is a patchy plantation with the voids in red pine now occupied by jack pine. Scattered remanent red pine and large diameter white pine.																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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49	6113 - Lowland Maple	Poletimber Medium	6.7	50	1-50	N/A	2023 - Wooded drainage with patches of tag alder.
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Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	10	Pole/Sapling	6	
Paper Birch	5	Pole/Sapling	5	
Balsam Fir	10	Pole/Sapling	5	
White Pine	15	Pole/Sapling	5	
Red Maple	60	Pole/Sapling	6	50

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Medium	5 - 10 feet	Tall Shrub
Balsam Fir	Low	Variable	Sapling
White Pine	Low	Variable	Sapling

50	42290 - Natural Mixed Pine	Sapling Medium	84.3	6	Immature	N/A	2023 - Stand is regenerating well. Jack pine is filling in the majority of the site and is about 3ft tall. white pine and black spruce regen mixed in along the north and east edge. Quite a bit of mature pine in the northeast portion of stand. 2017 - This stand was cut in Dec 2017 'Hit the Road Jack' (61-102-18-03). Mid-Michigan Logging gained access through a private parcel off Fletcher road. All of the Jack pine was removed leaving scattered red and white pine. Stand was chip harvested so hopefully this scarified the ground enough that the jack pine will seed in. Stand has quite a bit of young white pine in spots.
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Canopy Species	% Cover	Size Class	DBH	Age
White Pine	35	Pole/Sap/Log	6	
Red Pine	10	Log	12	70
Red Maple	5	Pole/Log	9	
Black Cherry	3	Pole	8	
Northern Pin Oak	2	Pole/Log	9	
Jack Pine	45	Sapling	1	6

51	6120 - Lowland Cedar	Poletimber Well	450.6	93	51-80	N/A	2023 - Large lowland complex. Areas of well stock cedar with dense canopy cover. Also areas of sparse stocking dominated by tag alder and young fir. Big devil creek flows through Northern portion of the stand. A few areas /ridges that are kind of upland. Scattered mature white pine.
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Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	5	Pole/Sapling	6	
Tamarack	10	Pole	7	
Black Spruce	10	Pole/Sapling	6	
White Pine	5	Log	14	
Balsam Fir	10	Pole/Sapling	6	
Northern White Cedar	60	Pole	8	93

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Sapling
Tag Alder	Medium	Variable	Tall Shrub

53	622 - Lowland Shrub	Nonstocked	13.3			No	
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54	42290 - Natural Mixed Pine	Sawtimber Poor	19.9	90	1-50	N/A	2023 - stand is regenerating well to a pine, spruce, fir mix. Scattered mature Pine and cedar. Red maple sprouts getting browsed heavily. A few oaks present. Mix of upland and lowland. 2017 - Stand was cut in the summer of 2017 'Bear tracks Mix' 61-125-15-01. All of the spruce, fir, jack pine, red maple was removed leaving scattered pine and cedar. There is also a decent amount of spruce and white pine less than 4" that was saved. Pretty wet ground near the north edge.
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Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	15	Sapling/Pole	4	25
Northern White Cedar	15	Pole/Log	9	
Balsam Fir	10	Sapling/Pole	4	
Red Pine	20	Log	14	
White Pine	40	Log/Pole/XLog	14	90

Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	Trace	< 5 feet	Sapling
White Pine	Low	< 5 feet	Sapling
Red Maple	Low	5 - 10 feet	Sapling
Black Spruce	Low	< 5 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
56	6113 - Lowland Maple	Poletimber Well	9.5	68	51-80	N/A	2023- Some scattered mature white pine. A few veins of black spruce. Predominantly red maple with some white pine and fir in the understory.																																															
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57	42200 - Natural White Pine	Sawtimber Medium	7.0	90	51-80	N/A	2023 - Stand has quite a bit of white pine and black spruce in the understory. Eastside of stand is on lower ground with more red maple mixed in the canopy.																																															
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59	6127 - Lowland Pine	Sawtimber Medium	8.1	81	51-80	N/A	2023 - Stand has a drainage running through the north end. History of fire. Mix of lowland and upland. 2013 - Stand contains a few lowland pockets of black spruce but is mostly scattered large diameter pine logs. White pine saplings in the understory.																																															
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Red Maple	Low	5 - 10 feet	Sapling																																																			
61	6122 - Black Spruce	Sapling Well	12.5	44	1-50	N/A	very dense stocking. Scattered mature pine and spruce. Parts of stand converting to pole size timber.																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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63	42110 - Planted Red Pine	Sapling Well	39.4	7	Immature	N/A	2023 - Planted red pine is looking good. Jack pine is also present and some black spruce along the west edge. Scattered mature white and red pine. - Stand recently had the jack pine cut out (chip harvested). There is scattered red and white pine logs and patches of young white pine. There is a few small lowland pockets in the stand. West edge is transition ground down to the swamp. - Stand was planted in august of 2016 (FTP# 62-864) with 2-0 stock. Stand objective is a mixed pine stand.- Regen survey show, 30% mortality, 70% FTG and a final TPA of 700. Stand was replanted in 2018 to 875 TPA.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Pine		70	Sapling	1	7		
White Pine		10	Log/Pole/XLog	14			
Jack Pine		20	Sapling	1	7		

65	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	9.9	90	51-80	N/A	2023 - Some scattered large white pine. Stand also has a small creek running through it. Balsam and spruce are mature on the east side of the creek. white pine and balsam filling in the understory.
Canopy Species		% Cover	Size Class	DBH	Age		
Black Spruce		20	Pole	8	90		
Tamarack		5	Pole	8			
Northern White Cedar		15	Pole/Log	9			
White Pine		10	Log/XLog	15			
Red Maple		35	Log/Pole	10	90		
Balsam Fir		10	Pole	8			
Paper Birch		5	Pole	8			

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Sapling
White Pine	Medium	Variable	Sapling
Black Spruce	Low	Variable	Sapling

66	42200 - Natural White Pine	Sawtimber Well	7.1	80	81-110	N/A	2023 - Heavy browse on the red maple and aspen sprouts. BAs: 100, 90, 05/25/21 - Stand was treated with timber sale Ridge & Swale Pine 61-151-15.2013 - Stand was thinned in 1995. Nice quality natural stand that is about 8 sticks tall. Some 40 year old aspen mixed in also. East of the trail road there stocking is less and there is more advanced regeneration.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Maple		5	Pole	8			
Red Oak		2	Log	14			
Red Pine		25	Log/Pole	12			
White Pine		68	Log	14	80		

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	Variable	Sapling
Quaking Aspen	Low	< 5 feet	Sapling
Red Maple	Low	< 5 feet	Sapling

67	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Well	11.5	28	Immature	N/A	2023 - Some areas are well stocked with white pine and spruce, others with pockets of tag alder. 2013 - Stand was clearcut in 1995. Regen is about 20' -30' tall and is well stocked.
Canopy Species		% Cover	Size Class	DBH	Age		
Balsam Fir		35	Sapling/Pole	3	28		
Northern White Cedar		5	Pole/Sapling	5			
Black Spruce		10	Sapling	2			
White Pine		30	Sapling/Pole	3			
Red Maple		20	Sapling	3			

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Medium	Variable	Tall Shrub

68	42210 - Natural Red Pine	Sawtimber Well	6.5	80	111-140	N/A	2023 - BA :150, 120, 130. Healthy looking stand. Some white pine seeding in. 05/25/21 - Stand was treated with timber sale Ridge & Swale Pine 61-151-15.2013- Natural red pine stand, was thinned in 1995. Nice quality pine 7-8 sticks tall.
Canopy Species		% Cover	Size Class	DBH	Age		
White Pine		25	Log/Pole	13			
Red Pine		70	Log/Pole	11	80		
Red Oak		5	Log	14			

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Trace	< 5 feet	Sapling
Red Maple	Trace	< 5 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																		
69	42200 - Natural White Pine	Sawtimber Well	3.3	80	81-110	N/A	2023 - Healthy overstory. Some white pine seeding in. BAs: 90, 130, 110. 05/25/21 - Stand was treated with timber sale Ridge & Swale Pine 61-151-15.2013 - Nice quality natural pine stand thinned in 1995.																																		
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70	6120 - Lowland Cedar	Poletimber Medium	122.4	93	1-50	N/A																																			
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71	42220 - Natural Jack Pine	Poletimber Well	30.7	70	51-80	N/A	2023- stand is reaching maturity. Decent amount of white pine established in the understory especially in the western part of the stand.																																		
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72	122 - Road/Parking Lot	Nonstocked	4.7			No																																			
73	622 - Lowland Shrub	Nonstocked	134.7			No																																			
74	6113 - Lowland Maple	Poletimber Medium	14.8	77	1-50	N/A																																			
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75	6122 - Black Spruce	Poletimber Well	31.7	81	51-80	N/A	2013 - Lots of size classes of spruce. The south edge of the stand has jack pine mixed in the overstory. Lots of pockets of sapling sized spruce with scattered pole timber throughout. Center of the stand seems to have better stocked pole timber.																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
76	42290 - Natural Mixed Pine	Sawtimber Well	14.8	90	111-140	N/A	<p>2023 - white pine and black spruce are getting established in the understory. Overstory is looking healthy. 2017 -Stand was thinned in 2017. Lone Blue Berry Mix 61-114-15-01. Also all jack pine was cut. There is an active eagles nest to the south east along the river bank.</p> <p>2013 -Stand has a small black spruce pocket in the middle of it. Lots of 8-9 + stick red and white pine. Ground appears to be a big hummicky. Unique natural pine stand. Records show that a portion of this stand was thinned in 95?</p>				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		5	Pole	8		Black Spruce		Low	Variable	Sapling	
White Pine		35	Log	14		White Pine		Low	Variable	Sapling	
Red Pine		55	Log	13	90						
Black Spruce		5	Pole/Sapling	7							
77	42220 - Natural Jack Pine	Poletimber Medium	32.9	40	51-80	N/A	<p>2023- Some pockets of more mature jack pine. Scattered remanet red pine. 2013 -Naturally regenerating stand. Stocking is quite variable.</p>				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Pine		10	Pole/Sapling	6		White Pine		Low	Variable	Sapling	
Jack Pine		80	Pole/Sapling	6	40	Jack Pine		Low	Variable	Sapling	
White Pine		10	Pole/Sapling	6							
78	42220 - Natural Jack Pine	Poletimber Medium	11.0	37	51-80	N/A	<p>2023- stand is a mix of upland and lowland. Stocking is quite a bit lower on the wetter ground. Mostly pole timber but some areas still in tranistion.</p>				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Black Spruce		5	Sapling/Pole	3		Black Spruce		Trace	5 - 10 feet	Sapling	
Jack Pine		90	Pole/Sapling	5	37						
Black Cherry		5	Pole/Sapling	5							
79	6124 - Lowland Spruce-Fir	Poletimber Well	4.6	83	Unspecified	N/A					
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Northern White Cedar		30	Pole	6		Balsam Fir		Low	Variable	Sapling	
Balsam Fir		30	Pole	6							
Black Spruce		30	Pole	6	83						
Paper Birch		10	Pole	6							
81	42220 - Natural Jack Pine	Poletimber Well	33.9	60	81-110	N/A	<p>2023 - Southern part of stand has a good amount of white pine mixed into the canopy and some black spruce along the edges. Starting to see some individual and pocket mortality. Eastern portion of stand has little white pine in the understory.</p> <p>2013 - Stocking is a bit variable. Some areas are ready to harvest but there are still a lot of pockets of 6-8" 3 stick timber. White pine is filling in the understory.</p>				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Jack Pine		67	Pole	8	60	White Pine		Medium	Variable	Sapling	
Black Spruce		3	Pole/Sapling	7							
Red Pine		13	Pole/Log	9							
White Pine		17	Pole/Log	9							
82	42110 - Planted Red Pine	Poletimber Well	37.8	60	111-140	N/A	<p>2023 - BAs : 110, 120, 80. 2017 -Stand was row thinned in 2017, Lone Blue Berry Mix 61-114-15-01. Also all the jack pine was removed.Note there is an active eagles nest to the west of the stand along the bend in the creek. 2013 -Heights are around 4-5 sticks. Not a very uniform plantation. Jack pine has filled in some of the voids.</p>				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Pine		100	Pole	8	60	Jack Pine		Trace	< 5 feet	Sapling	
						Black Cherry		Trace	Variable	Sapling	
						White Pine		Low	< 5 feet	Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
83	6113 - Lowland Maple	Poletimber Medium	4.3	82	51-80	N/A	Mostly red maple stand mix with a bit of balsam and spruce.																																											
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85	6124 - Lowland Spruce-Fir	Sapling Medium	15.2	6	Immature	N/A	2023 - stand is regenerating fairly well. Spruce and pine seeding in and pockets of red maple sprouts. Scattered mature white pine. 2017 - Stand is very wet. It was seed tree cut in 2017 (Lone Blueberry Mix 61-114-15-01). Left all the spruce less than 4" and all the white and red pine.																																											
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86	42220 - Natural Jack Pine	Poletimber Medium	36.1	37	1-50	N/A	2023 - stocking is patchy. Wet ground along the north and east, sphagnum and leatherleaf. stand is transitioning to a pole size stand.																																											
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87	122 - Road/Parking Lot	Nonstocked	2.3			No																																												
88	6122 - Black Spruce	Poletimber Well	12.4	86	81-110	N/A	2023 - Pockets of young red maple, might be an old habitat cut. Scattered legacy trees. Some areas of lowers stocking and look like a bog. stand also has pockets of sapling size spruce, mostly in the northern part of the stand. 2013 - Stand has some scattered red pine. Stocking fades abit as ground transitions to the cedar type.																																											
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90	42290 - Natural Mixed Pine	Sapling Medium	4.5	17	1-50	N/A	2023 - Stand is filling in with jack and white pine. Scattered mature red pine and black spruce. 2013 - In 2005 the stand had all of the jack pine harvested out of the stand.																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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91	6120 - Lowland Cedar	Poletimber Well	19.6	90	81-110	N/A	Lots of blow down along the north and east portion of the stand. Some of the blow down has been salvaged under a small sale receipt 501-13-03. Stand has creek running through it and is mostly dense canopy with little regen in the understory, except for the blowdown areas.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Tamarack		5	Pole	8		Black Spruce		Low	< 5 feet	Sapling
Northern White Cedar		80	Pole/Log	9	90					
Black Spruce		5	Pole	6						
Paper Birch		5	Pole	7						
Red Maple		5	Pole	8						

92	6122 - Black Spruce	Poletimber Well	3.1	82	81-110	N/A	2023- Scattered large diameter red and white pine. 2013 -Nice quality black spruce with a lot of advanced regen. Stocking is kind of variable. Creek buffer. has active eagle nest in it along the creek edge.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Pine		15	Log	13		White Pine		Low	< 5 feet	Sapling
Red Maple		10	Pole	7		Black Spruce		Low	Variable	Sapling
Black Spruce		65	Pole	8	82	Red Maple		Low	Variable	Sapling
Red Pine		10	Log	13						

100	6117 - Lowland Deciduous, Mixed Coniferous	Sapling Well	2.9	45	1-50	N/A	might be an old habitat cut.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Northern White Cedar		10	Pole	8		Tag Alder		Low	Variable	Tall Shrub
Paper Birch		5	Pole/Sapling	5		Balsam Fir		Medium	Variable	Sapling
Balsam Fir		5	Pole/Sapling	6		Red Maple		Low	Variable	Sapling
Black Spruce		25	Pole/Sapling	5		Black Spruce		Medium	Variable	Sapling
Red Maple		55	Sapling/Pole	4	45					